

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-58 and 71-114 without prejudice or disclaimer of the underlying subject matter and amend claims 59-70 as set forth below.

1-58. (CANCELED)

59. (CURRENTLY AMENDED) An optical system ~~as set forth in claim 58,~~
wherein; comprising:

a first optical device; and

a second optical device,

wherein the first optical device includes a first convex lens having a convex curved face and a first optical portion,

wherein the first optical portion includes a first face, a second face, a first concave curved face, and a first hole,

wherein the first face is parallel to the second face, the first face includes the first concave curved face, the first hole connects the second face to the first face through a portion of the first concave curved face,

wherein a portion of the convex curved face of the first convex lens is exposed in the first hole of the first optical portion,

wherein the second optical device includes a second convex lens having a convex curved face and a second optical portion,

wherein the second optical portion includes a third face, a fourth face, and a second concave curved face,

wherein the third face includes the second concave curved face, the second concave curved face contacts the convex curved face of the second convex lens, and the first and second optical devices are bonded so that the optical axes of the first and second convex lenses coincide or substantially coincide, and

wherein the first convex lens has a rotationally symmetric or substantially rotationally symmetric shape surrounded by the a flat surface of the first face of the first optical portion and the convex curved face facing this flat surface, and

the optical axis of the first convex lens or the extension thereof passes through the first hole of the first optical portion.

60. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 59,
~~wherein;~~

wherein the second face of the first optical portion is flat or substantially flat and parallel or substantially parallel to ~~the~~a flat surface of the first convex ~~curved face~~lens, and the area around the first concave curved face in the first face of the first optical portion is flat or substantially flat and parallel or substantially parallel to the flat surface of the first convex lens.

61. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 59,
~~wherein;~~

the second face of the first optical portion is substantially flat and substantially parallel to the flat surface of the first convex ~~curved face~~lens, and ~~the~~an area around the concave curved face in the first face of the first optical portion is flat or substantially flat and located in ~~the~~an identical plane or substantially identical plane to the flat surface of the first convex lens.

62. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 59,
~~wherein;~~

wherein the first hole has a substantially rotationally symmetric shape with respect to the optical axis,
the rotational symmetry axis of the first hole and the optical axis of the first convex lens coincide or substantially coincide, and
the first concave curved face of the first optical portion forms an annular inclined face.

63. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 62,
~~wherein;~~

wherein in the ~~third~~second optical portion, a second hole ~~communicating with the fourth face is formed from the deep side of the concave curved face closely contacting~~
connects the fourth face to the third face through a portion of the convex curved face of the second convex lens, and

wherein a portion ~~part~~ of the convex curved face of the second convex lens is exposed in the second hole of the ~~third~~second optical portion.

64. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 63,
~~wherein;~~

wherein the second convex lens has a rotationally symmetric or substantially rotationally symmetric shape surrounded by ~~the a~~ a flat surface of the third face of the second optical portion ~~and the convex curved face facing this flat surface~~, and

the optical axis of the second convex lens or the extension thereof passes through the second hole.

65. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 64,
~~wherein;~~

wherein the fourth face of the ~~third~~second optical portion is flat or substantially flat and parallel or substantially parallel to ~~the a~~ a flat surface of the second convex curved face ~~convex lens~~, and

~~the an~~ an area around the second concave curved face in the third face of the ~~third~~second optical portion is flat or substantially flat and parallel or substantially parallel to the flat surface of the second convex lens.

66. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 64,
~~wherein;~~

wherein the fourth face of the ~~third~~second optical portion is flat or substantially flat and parallel or substantially parallel to ~~the a~~ a flat surface of the second convex curved face ~~lens~~, and

~~the an~~ an area around the second concave curved face in the third face of the ~~third~~second optical portion is flat or substantially flat and located in ~~the an~~ an identical plane or substantially identical plane ~~to of~~ of the flat surface of the second convex lens.

67. (CURRENTLY AMENDED) ~~An~~The optical system as set forth in claim 66,
~~wherein;~~

wherein the second hole has a rotationally symmetric or substantially rotationally symmetric shape with respect to the optical axis of the second convex lens,

the rotational symmetry axis of the second hole and the optical axis of the second convex lens coincide or substantially coincide, and

the second concave curved face of the ~~third~~-second optical portion forms an annular inclined face.

68. (CURRENTLY AMENDED) ~~An~~-The optical system as set forth in claim 66, wherein the material of the at least one of first convex lens and/or and second convex lens is one of titanium oxide, tantalum oxide, niobium oxide, gallium phosphate, gallium nitride, a compound of titanium, niobium, and oxygen, a compound of titanium, tantalum, and oxygen, or silicon nitride.

69. (CURRENTLY AMENDED) ~~An~~-The optical system as set forth in claim 66, ~~wherein;~~
wherein the first convex lens is larger than the second convex lens,
the flat surface of the first face of the first optical portion and the fourth face of the ~~third~~-second optical portion are bonded, and
a solid immersion lens is ~~comprised~~-established by the first and second optical devices.

70. (CURRENTLY AMENDED) ~~An~~-The optical system as set forth in claim 66, wherein the material of the ~~third~~-second optical portion is one of aluminum oxide or silicon oxide.

71-114. (CANCELED)